

Automated Surface Observing System (ASOS) Product Improvement (PI)

*ASOS Program Management Committee
Briefing*

February 12, 2002

ASOS PRODUCT IMPROVEMENT PRIORITIES

<u>Improvement</u>	<u>NWS</u>	<u>FAA</u>
Processor Upgrade	3	1
Dewpoint Sensor	2	2
Ice-Free Wind Sensor	4	3
AWPAG	1	8
Enhanced Precipitation Identifier	5	4
Ceilometer Replacement	6	5
Sunshine Sensor	7	-
Visibility Sensor	-	6
Snow Depth Sensor	-	7

ACU PROCESSOR UPGRADE

- System (Re)Test successfully completed in September
- 36 Site Operational Acceptance Test (OAT) in process
 - 5 non-aviation sites in September, 1 more added in December
 - 5 ADAS & 4 staffed (non-ADAS) sites added in January
 - 3 staffed (non-ADAS, Dewpoint OAT) sites added in February to date
 - 18 sites awaiting software corrections or verifications
- 4 Software problems awaiting correction or verification
 - “Problem” ADAS sites (Vero Beach, FL; Glens Falls, NY)
 - Sky condition editing problem (“floating” asterisk)
 - Erroneous high wind speed on 2-DCP ASOS (Greer, SC)
 - DCP configuration “corruption” when adding 9th sensor (Austin, TX)
- Production/Funding
 - Initial full production – 650 boards @ \$2.37M awarded in September
 - Next production – 362 boards @ \$1.28M awaiting FY02 FAA funds
 - No commitments yet for Air Force or Navy production

DEWPOINT SENSOR REPLACEMENT

- Limited Production, 22 sensors, awarded in September
- ASOS software interface testing successfully completed
- 20 Site OAT in process
 - Baltimore Inner Harbor (DMH) installed in December
 - Stanley, Idaho, and Austin, Texas, installed in January
 - 5 more sites installed in February to date
 - 12 sites awaiting ACU processor corrections or verifications
- Production/Deployment Decision scheduled for March 4

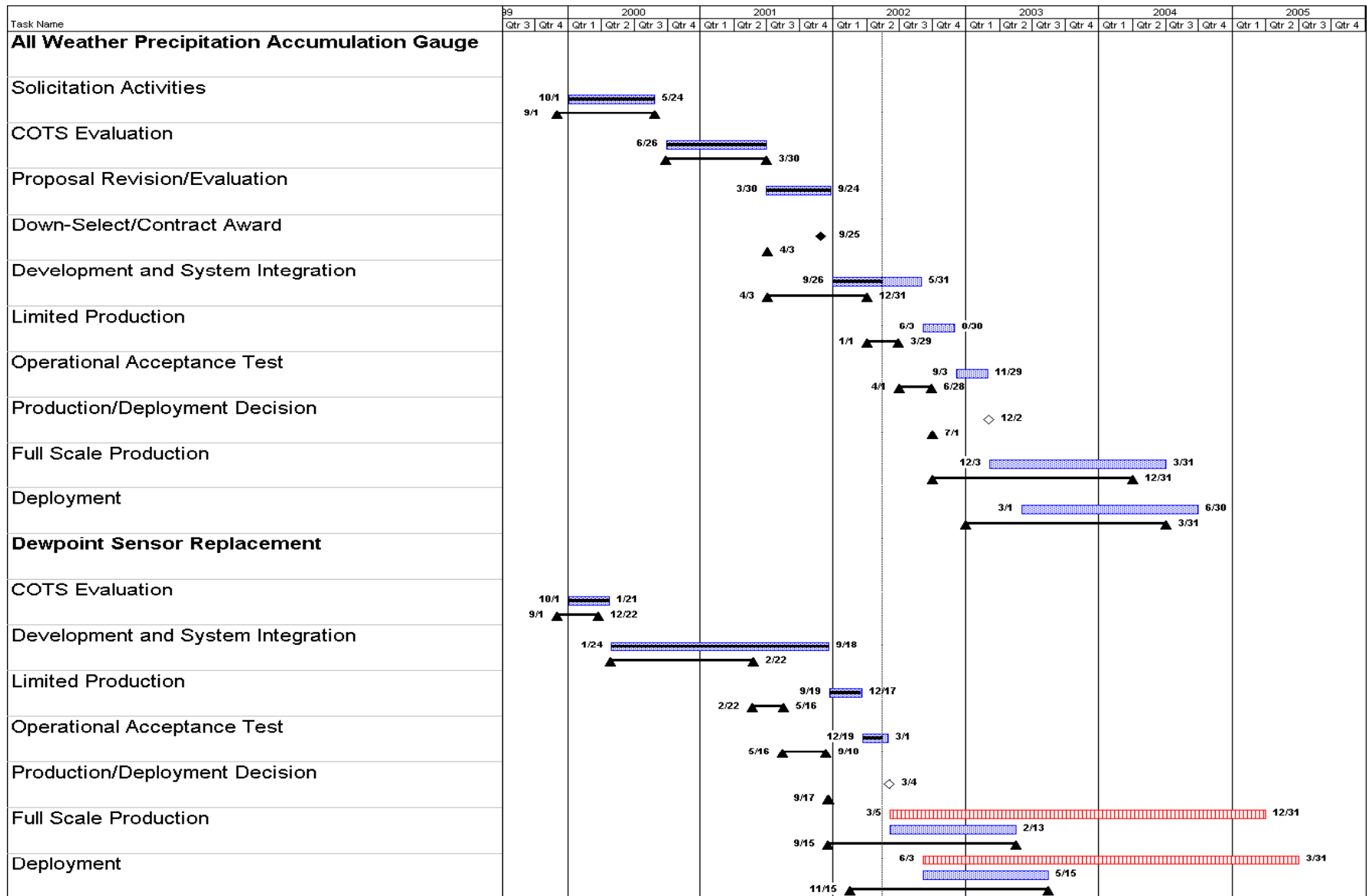
ICE-FREE WIND SENSOR

- Environmental Qualification Tests (EQT) completed
 - Model 425NWS (125 knot) passed all 26 tests
 - Model 427NWS (175 knot) passed 23, failed 3
- Performance in Wind-Blown Rain is a concern
 - EQT for water intrusion test insufficient to validate performance
 - Validation at field test sites & OAT sites
- Limited Production, 22 sensors (425NWS), awarded in January
- ASOS software interface being developed and tested
- Site Selection for 20-site OAT in process
 - OAT scheduled for April-July

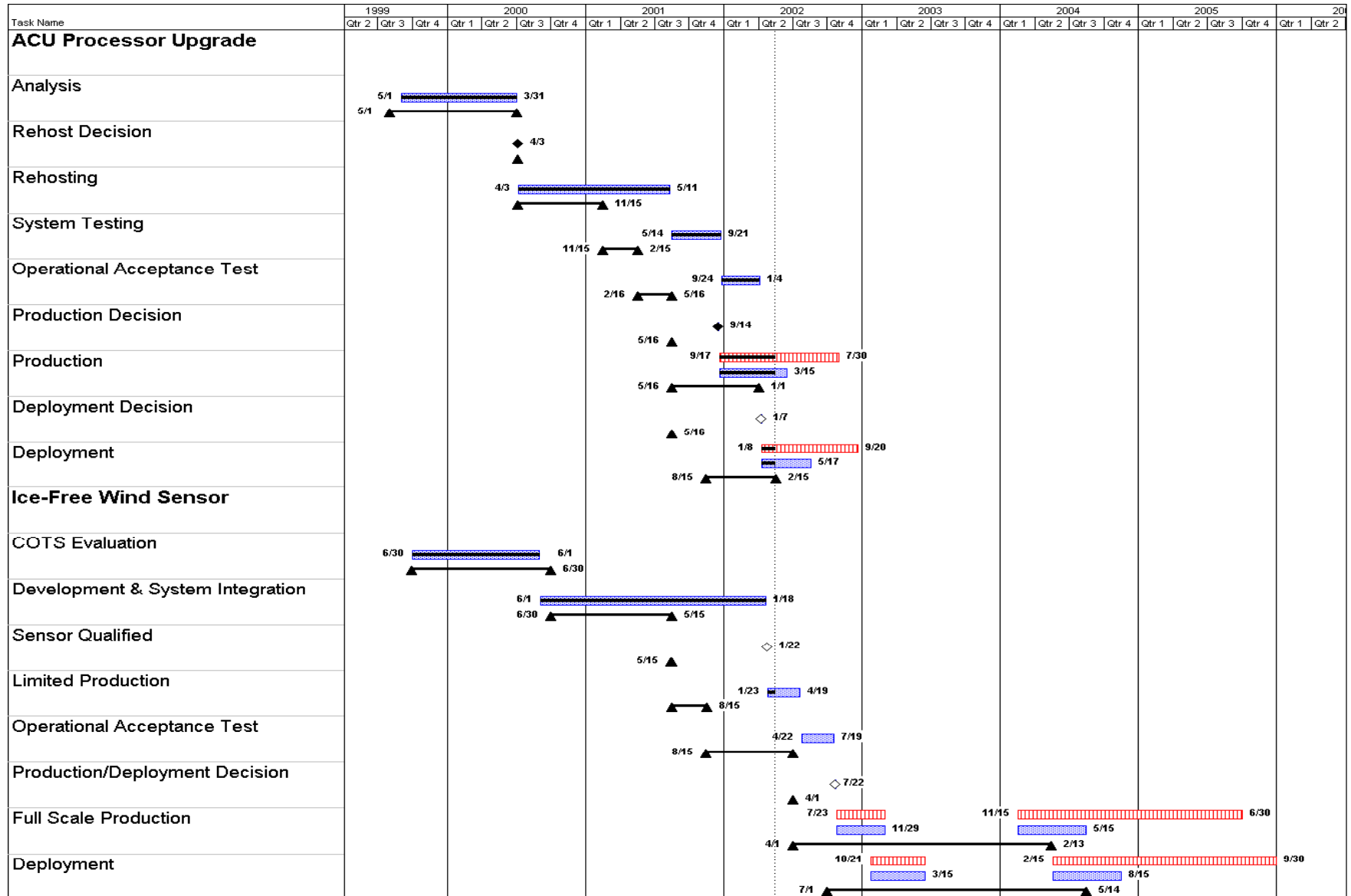
ALL WEATHER PRECIPITATION ACCUMULATION GAUGE (AWPAG)

- Development contract awarded to C.C. Lynch in September
 - Teamed with Ott Hydrometrie & Technical Services Laboratory
 - Successful Preliminary Design Review in October
- 4 pre-production gauges delivered & installed in January
 - 2 at Sterling, Virginia; 2 at Johnstown, Pennsylvania
- Critical Design Review scheduled for February 20-21

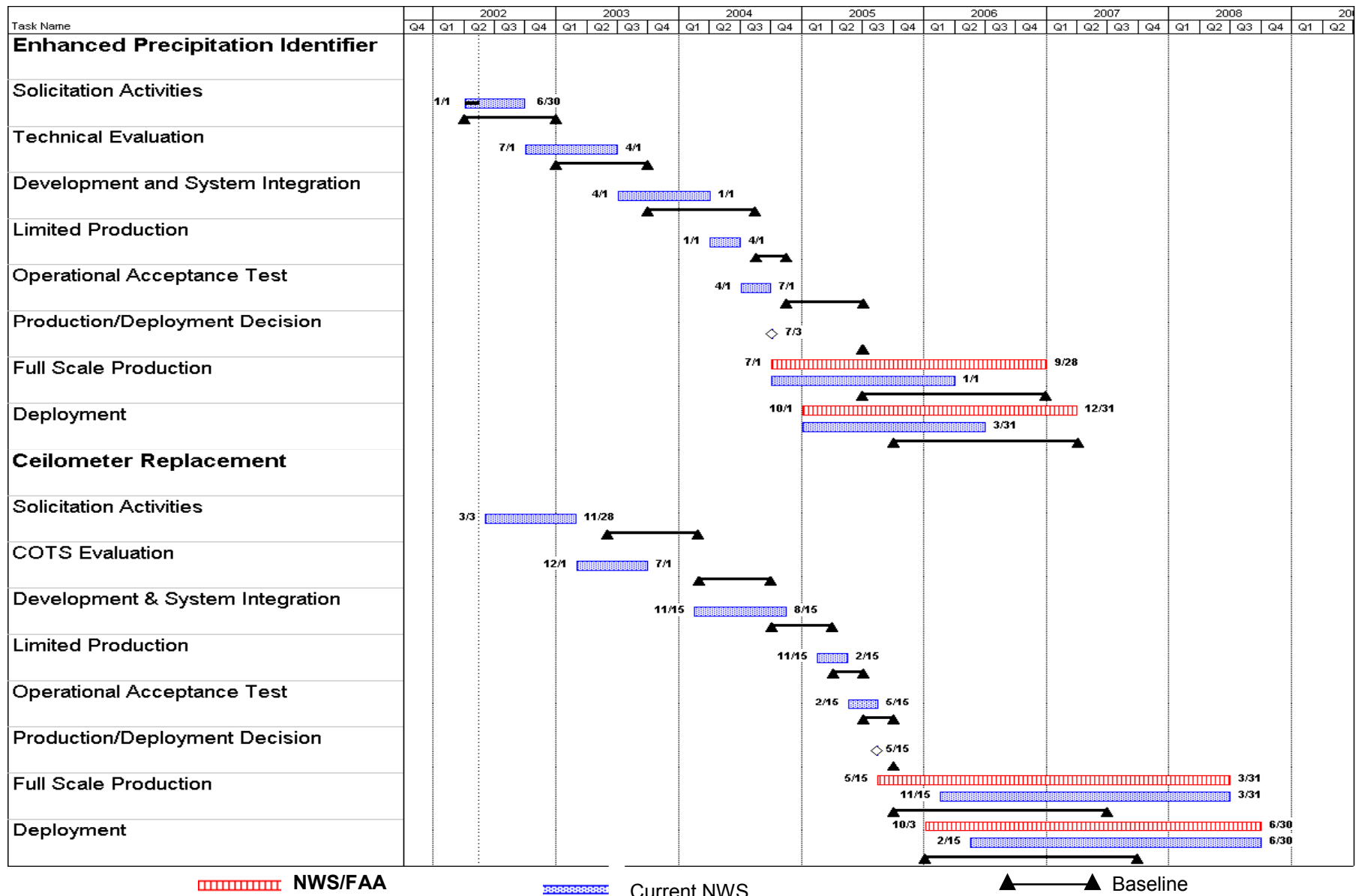
ASOS SCHEDULE



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Subsequent to the 2/12/2002 briefing, it was discovered that an outdated Ceilometer Replacement schedule had been presented. The correct schedule follows.

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